

MA-WD580-DP10

470-698 MHz Dual Polarization Base Station Antenna, 90°

MARS 470-680 MHz Base Station Antenna provides a robust and efficient solution for the TVWS (TV White Space)

Additional Features:

- 90° azimuthal coverage.
- Suitable for harsh environment installations.
- DC grounded.
- Easy mounting allows obtaining required down tilt degree with the optional MNT-25 mount.



Specifications

Electrical

Frequency range		470 – 698 MHz
Gain, typ.	H-Polarization	11 -13 dBi (across the frequency band)
	V-Polarization	10 -12 dBi (across the frequency band)
VSWR		2 : 1 max. ; 1.5 :1 typ.
Polarization	Dual Pole	Linear, Vertical and Horizontal
3dB Beam-Width, H-Plane, typ. (Az for V-Pole)		92° -82° (across the frequency band)
3dB Beam-Width, E-Plane, typ. (Az.for H-pole)		70° -67° (across the frequency band)
3dB Beam-Width, Elevation, typ		32° -22° (across the frequency band)
Down Tilt		10° (mechanical)
Cross Polarization, typ.		-20 dB
Front to Back Ratio, min.		-10 dB - -15 dB (across the frequency band)
Port to Port Isolation		-25 dB
Input power, max.		20 Watt
Input Impedance		50 Ohm
Lightning Protection		DC Grounded

Mechanical

Dimensions (HxWxD)	968 x 328 x 145 mm (38.13" x 12.93" x 5.7")
Connector	2 x N-type, Female
Weight	3.8.Kg.
Mounting	See ordering options
Radome	UV Protected Plastic
Back Plane	Aluminum protected through chemical passivation.

Environmental

Operating Temperature Range	-55°C to +65°C
Vibration	According to IEC 60721-3-4
Wind Load	200 Km/h (Survival)
Flammability	UL94
Water Proofing	IP-65
Humidity	ETS 300 019-1-4,EN 302 085 (Annex A.1.1)
Salt Fog	According to IEC 68-2-11

Ordering Options

MA-WD580-DP10	Antenna Suited for MNT-25 (optional mount)
MA-WD580-DP10B	Antenna with MNT-25 mount

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